

Datasheet for 600-401-H20**ST2 Antibody****Overview**

Description:	Anti-ST2 (RABBIT) Antibody - 600-401-H20
Item No.:	600-401-H20
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	ST2 antibody detects mouse ST2 and is common to all three isoforms. ST2 is a member of a superfamily containing the interleukin-1 receptor and the Toll-like receptors (TLRs). The TLRs are signaling molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. ST2 was originally identified as a protein whose production was stimulated by various proliferation-inducing agents such as PDGF and FGF. More recently, it has been shown to negatively regulate IL-1 receptor and Toll-like receptor (TLR) 4 signaling and to maintain endotoxin tolerance. It has been suggested that the inhibition of TLR4 signaling occurs through the association and sequestering of TLR adaptor molecules such as MyD88 and TIRAP. Anti-ST2 antibodies are ideal for investigators involved in cytokine and growth factors research.
Synonyms:	Ly84, St2, Ste2, Interleukin-1 receptor-like 1, Interleukin-33 receptor alpha chain1, Lymphocyte antigen 84, Protein ST2, Protein T1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Il1rl1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	ST2 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to amino acids at the n-terminus of mouse ST2. This peptide is common to all three known ST2 isoforms.
Purity/Specificity:	Anti-ST2 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with ST2 with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with ST2 from other sources has not been determined.
Relevant Links:	• NCBI - NP_001020773.1 • UniProtKB - P14719 • GeneID - 17082

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-ST2 Antibody has been tested in ELISA, WB, IF, and IHC. Expect a band approximately ~64.8kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1-2 ug/mL

Formulation

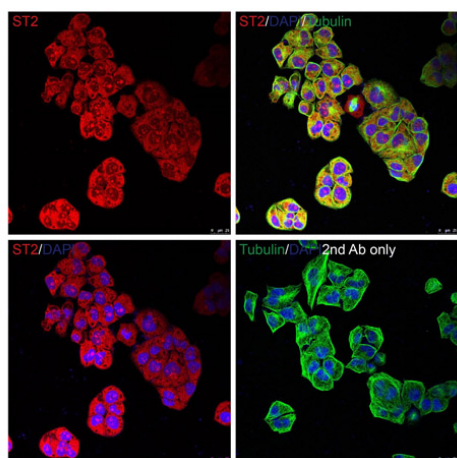
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

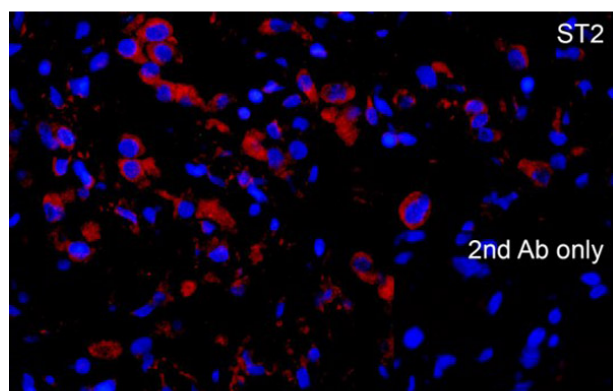
Immunofluorescence of ST2.

Cell: HeLa Cells.

Fixation: PFA-fixed,

Primary Antibody: Anti-ST2 at 20 µg/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:1000 dilution (red) and DAPI staining (blue). Alpha tubulin was stained with anti-alpha tubulin antibody following by goat anti-mouse IgG secondary antibody (green). Images were captured with confocal microscopy.



Immunofluorescence Microscopy

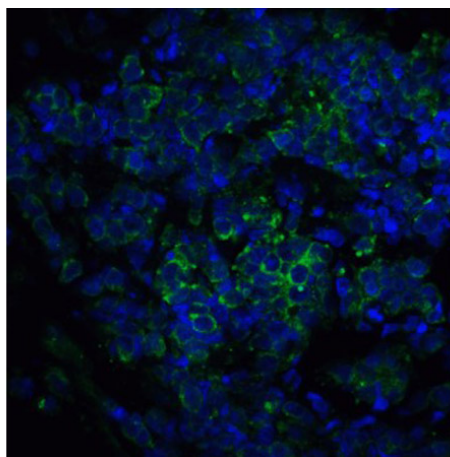
Immunofluorescence of ST2.

Tissue: Human Lung tissue.

Fixation: PFA-fixed.

Primary Antibody: Anti-ST2 at 10 µg/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:1000 dilution (red) and DAPI staining (blue).



Immunofluorescence Microscopy

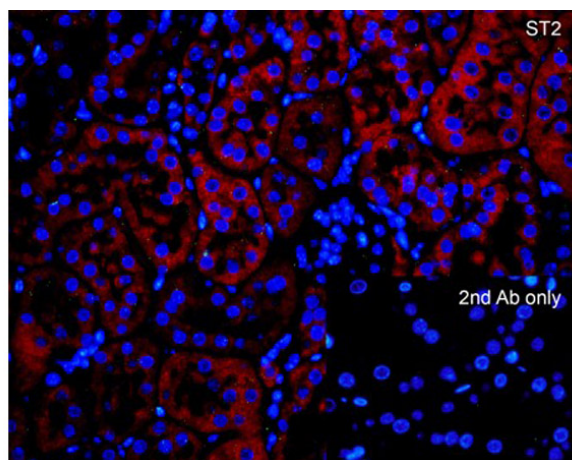
Immunofluorescence of ST2.

Tissue: Human Lung Cancer Tissue.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: Anti-ST2 at 5 µg/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) DAPI staining (blue).



Immunofluorescence Microscopy

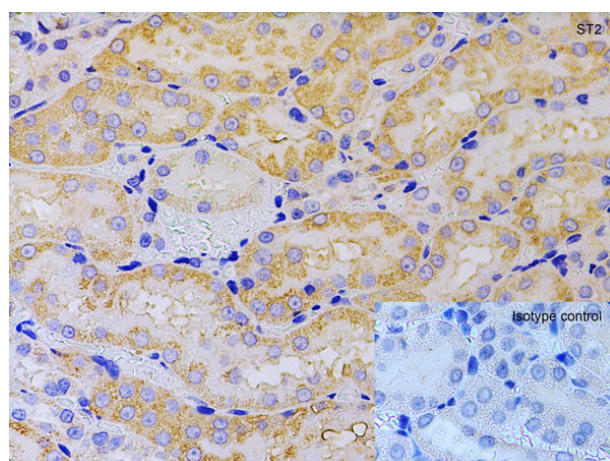
Immunofluorescence of ST2.

Tissue: mouse kidney tissue

Fixation: PFA-fixed.

Primary Antibody: Anti-ST2 at 10 µg/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:1000 dilution (red) and DAPI staining (blue).



Immunohistochemistry

Immunohistochemistry of ST2.

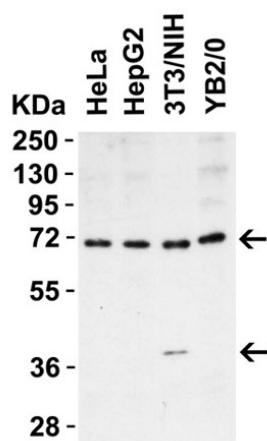
Tissue: rat kidney tissue.

Fixation: paraffin-embedded, formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-ST2 antibody at 5 µg/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



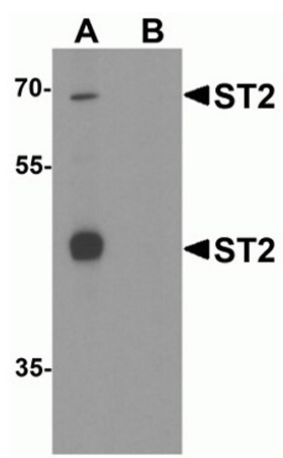
Western Blot

Western Blot of ST2.

Load: 15 μ g of Human, Mouse, or Rat lysate per lane. Lane 1: HeLa, Lane 2: HepG2, Lane 3: 3T3/NIH, Lane 4: YB2/O.

Primary Antibody: anti-ST2 at 1 μ g/mL for 1h at RT in 5% NFDm/TBST.

Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



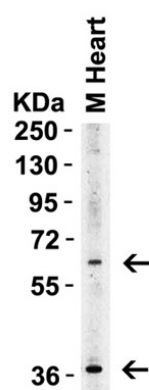
Western Blot

Western Blot of ST2.

Load: 293 cell lysate.

Primary Antibody: Anti-ST2 at 1 μ g/mL for 1h at RT in 5% NFDm/TBST. Lane A: In the absence of blocking peptide Lane B: In the presence of blocking peptide.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot

Western Blot of ST2.

Load: 15 μ g of Mouse Heart lysate.

Primary antibody: anti-ST2 at 1 μ g/mL for 1h at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.